

4.2.A. 0604000101 (Tennessee River).

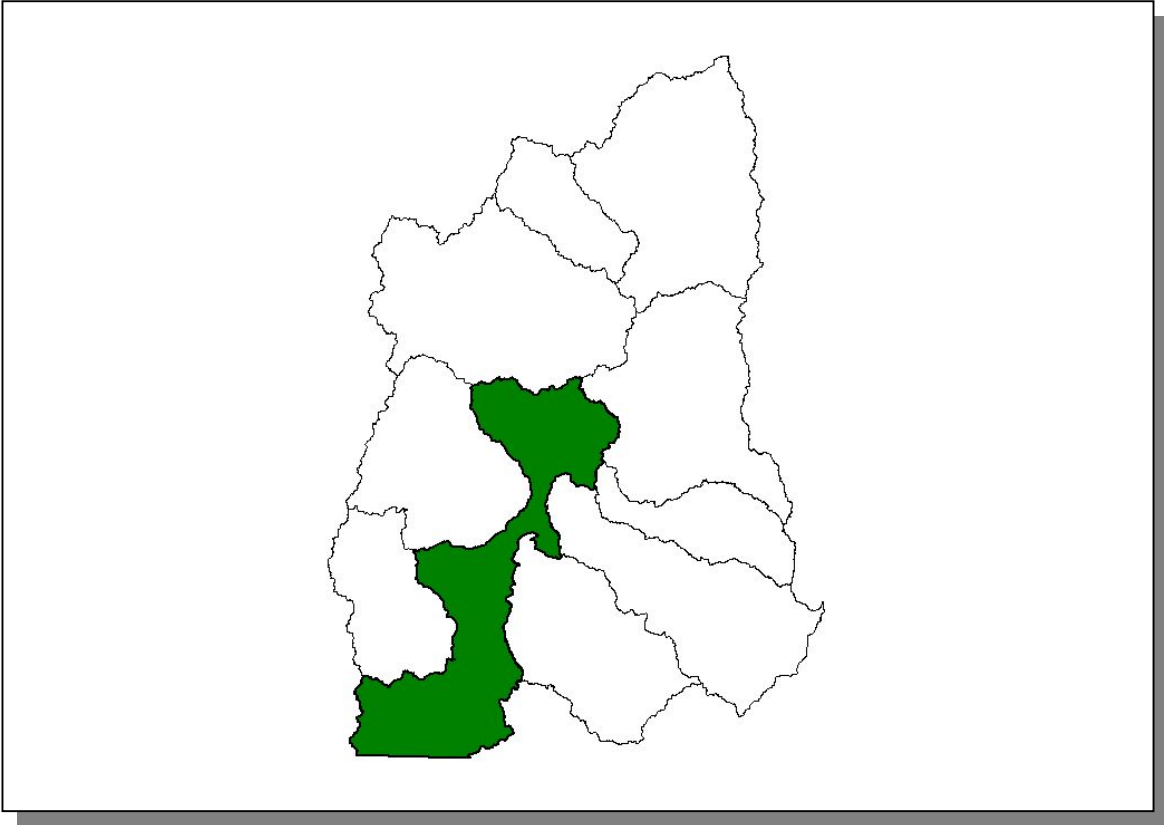


Figure 4-2. Location of Subwatershed 0604000101. All Tennessee Western Valley (Beech River) HUC-10 subwatershed boundaries are shown for reference.

4.2.A.i. General Description.

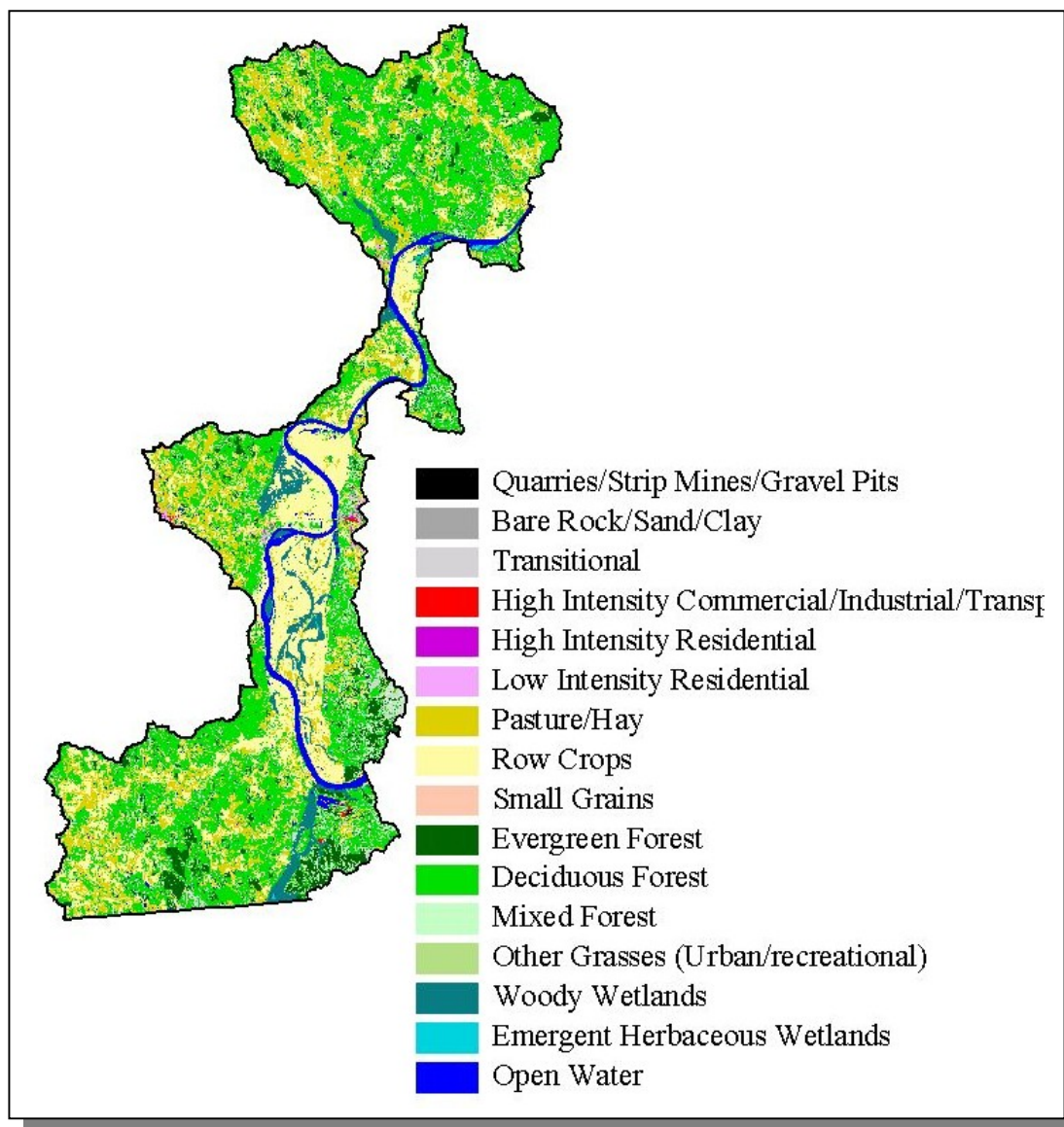


Figure 4-3. Illustration of Land Use Distribution in Subwatershed 0604000101.

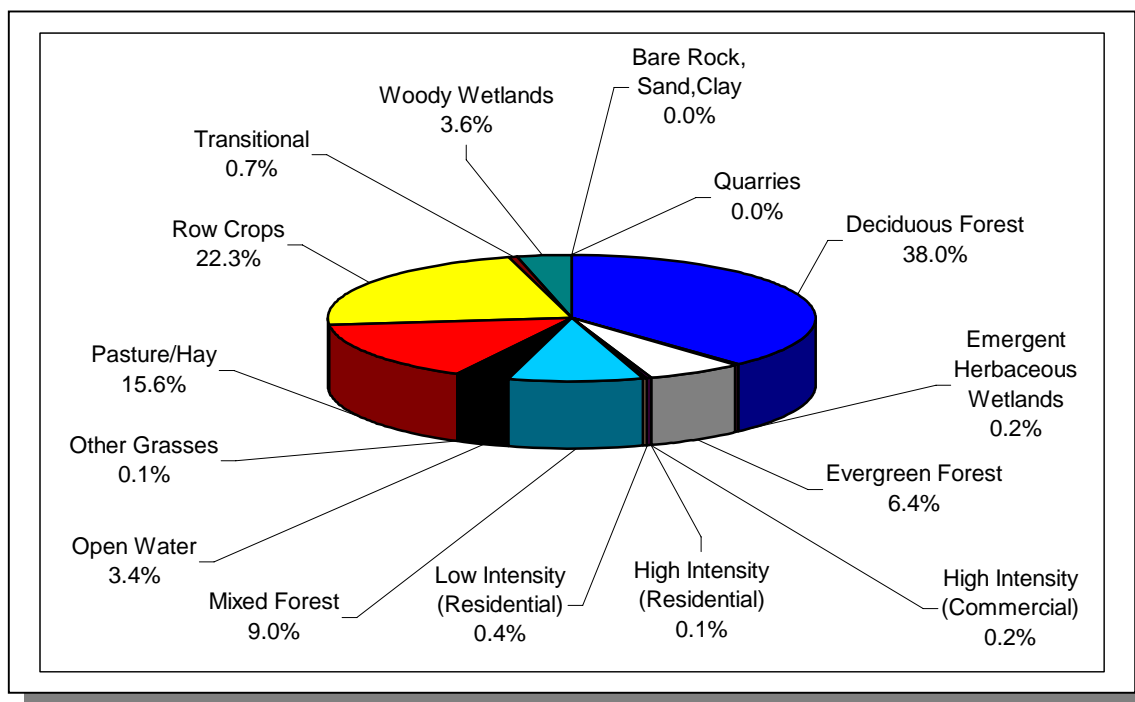


Figure 4-4. Land Use Distribution in Subwatershed 0604000101. More information is provided in Appendix IV.

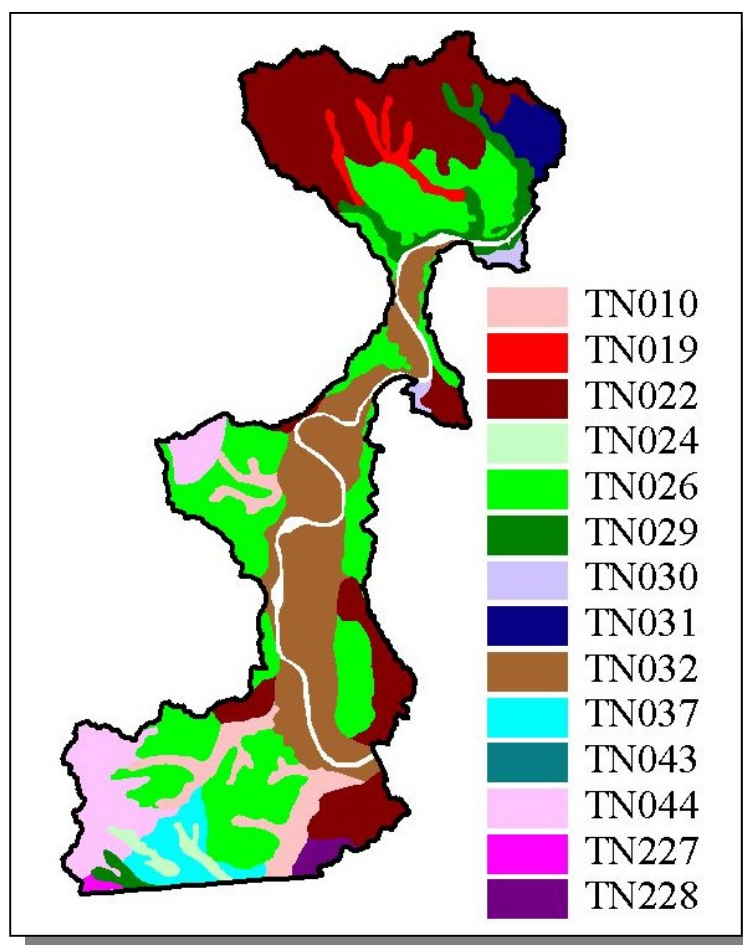


Figure 4-5. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN010	81.00	C	1.33	5.11	Silty Loam	0.44
TN019	62.00	C	1.54	4.76	Loam	0.26
TN022	5.00	C	1.98	5.07	Loam	0.37
TN024	61.00	D	2.18	5.35	Loam	0.29
TN026	0.00	B	1.52	5.13	Silty Loam	0.40
TN029	8.00	C	2.96	5.40	Loam	0.33
TN030	2.00	B	1.84	5.06	Loam	0.33
TN031	0.00	C	3.27	4.88	Loam	0.33
TN032	19.00	C	1.21	5.51	Silty Loam	0.37
TN037	0.00	C	3.51	4.86	Sandy Loam	0.27
TN043	0.00	C	2.70	5.02	Loam	0.30
TN044	0.00	C	1.48	5.32	Silty Loam	0.42
TN227	0.00	C	2.41	5.03	Silty Loam	0.38
TN228	1.00	B	3.32	5.09	Sandy Loam	0.28

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000101. More details are provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Henderson	21,844	24,000	25,522	3.72	812	892	949	16.9
McNairy	22,422	23,678	24,653	7.97	1,788	1,888	1,966	10.0
Totals	77,371	83,293	87,484		10,892	11,746	12,266	12.6

Table 4-3. Population Estimates in Subwatershed 0604000101.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Adamsville	McNairy	1,745	764	606	154	4
Crump	Hardin	2,006	951	67	873	11
Michie	McNairy	709	309	2	300	7
Sardis	Henderson	315	159	8	151	0
Scotts Hill	Henderson	611	297	12	278	7
Saltillo	Hardin	377	232	13	194	25
Savannah	Hardin	6,569	2,782	2,719	63	0
Totals		12,352	2,712	3,427	2,013	54

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0604000101.

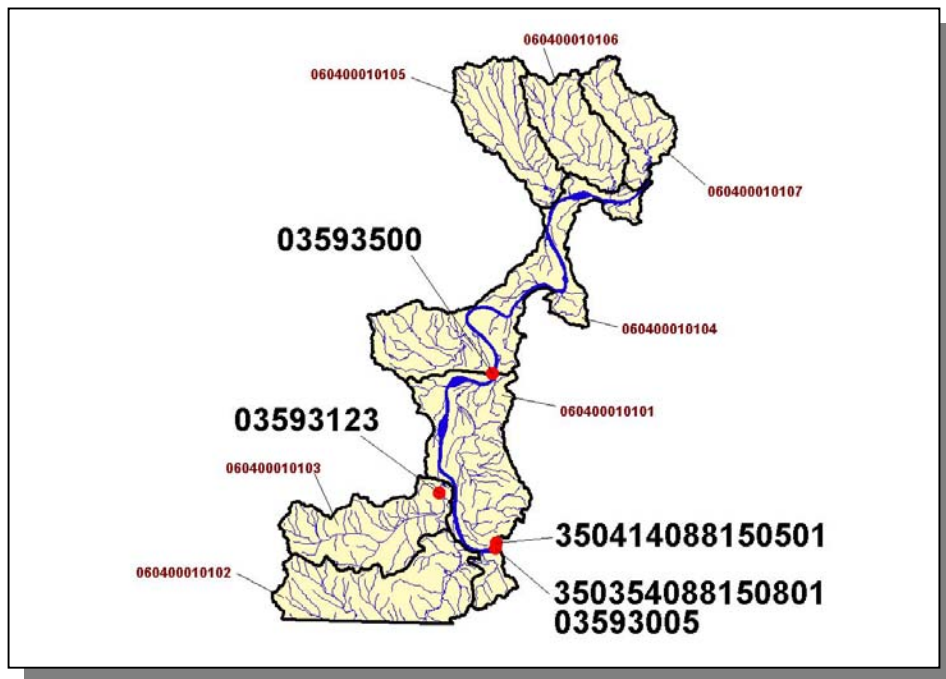


Figure 4-6. Location of Historical Streamflow Data Collection Sites in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010105, 060400010106 and 060400010107 boundaries are shown for reference. More information is provided in Appendix IV.

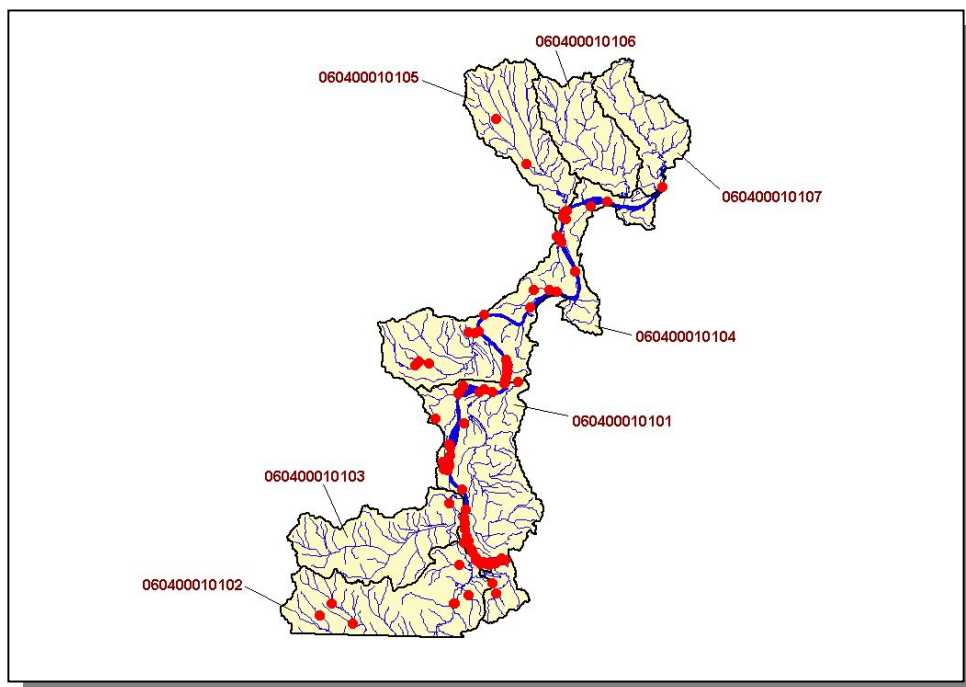


Figure 4-7. Location of STORET Monitoring Sites in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010105, 060400010106 and 060400010107 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.A.ii Point Source Contributions.

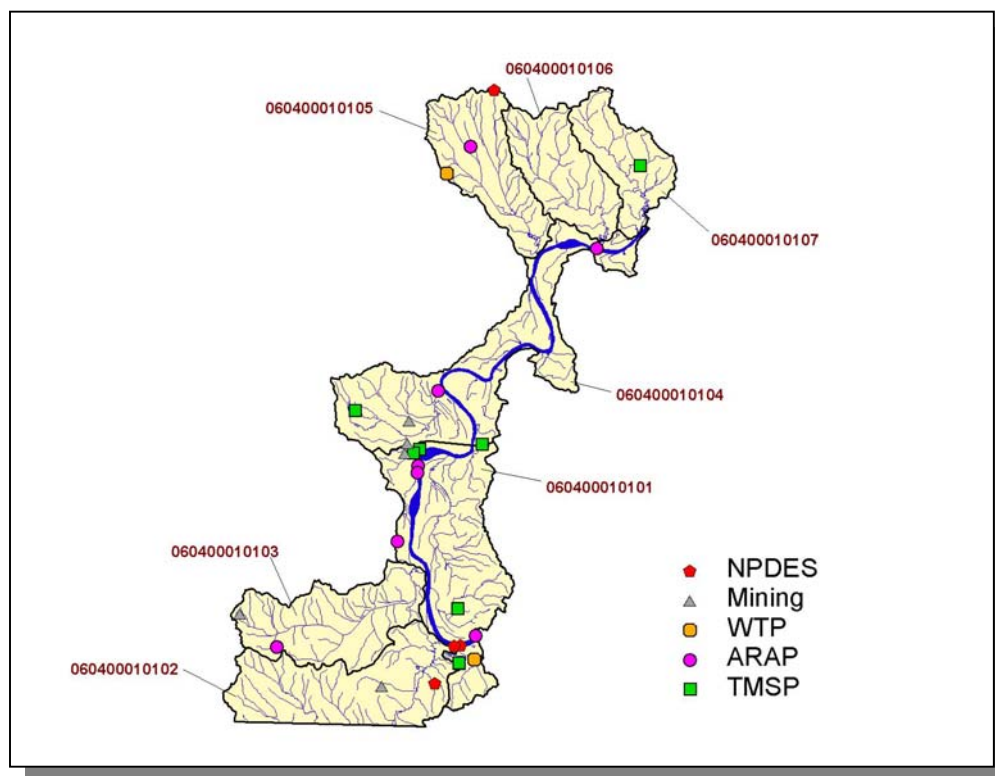


Figure 4-8. Location of Active Point Source Facilities in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010104, 060400010105, 060400010106, and 060400010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

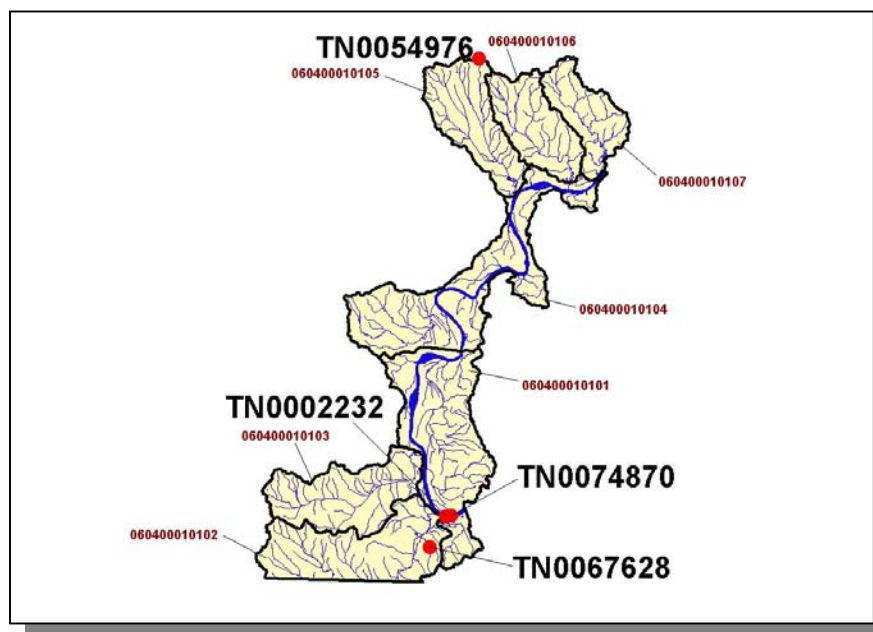


Figure 4-9. Location of NPDES Facilities in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010104, 060400010105, 060400010106, and 060400010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

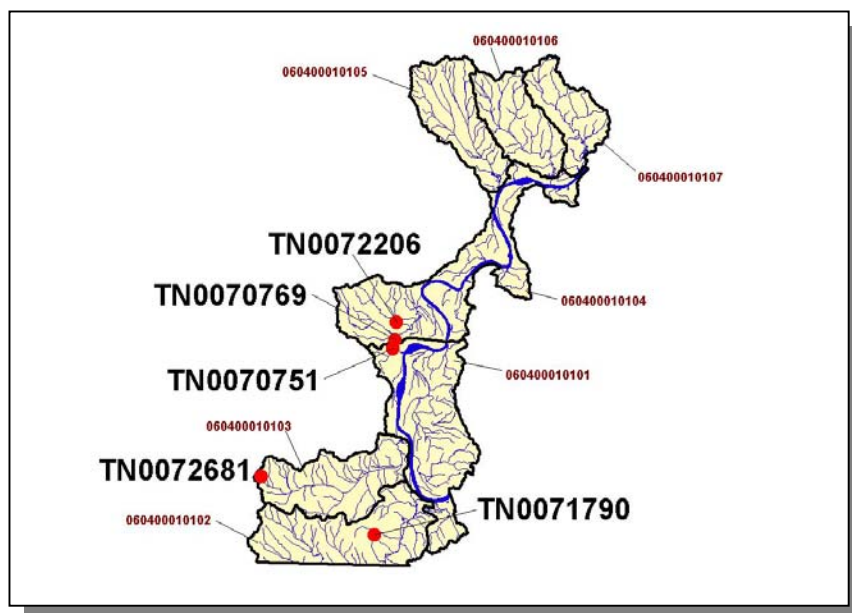


Figure 4-10. Location of Active Mining Facilities in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010104, 060400010105, 060400010106, and 060400010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

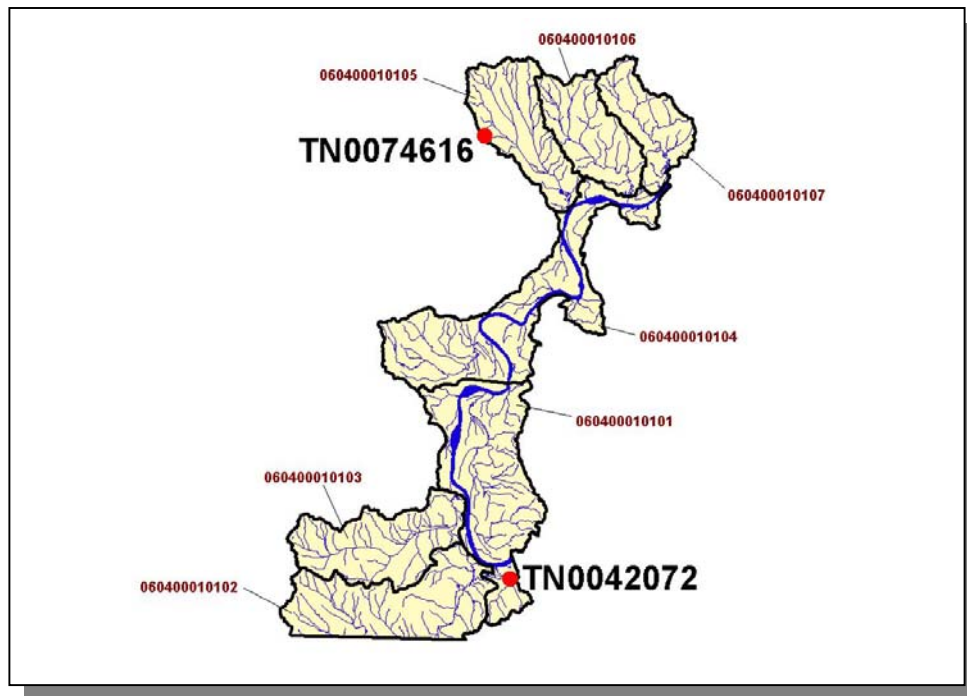


Figure 4-11. Location of Water Treatment Plants in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010104, 060400010105, 060400010106, and 060400010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

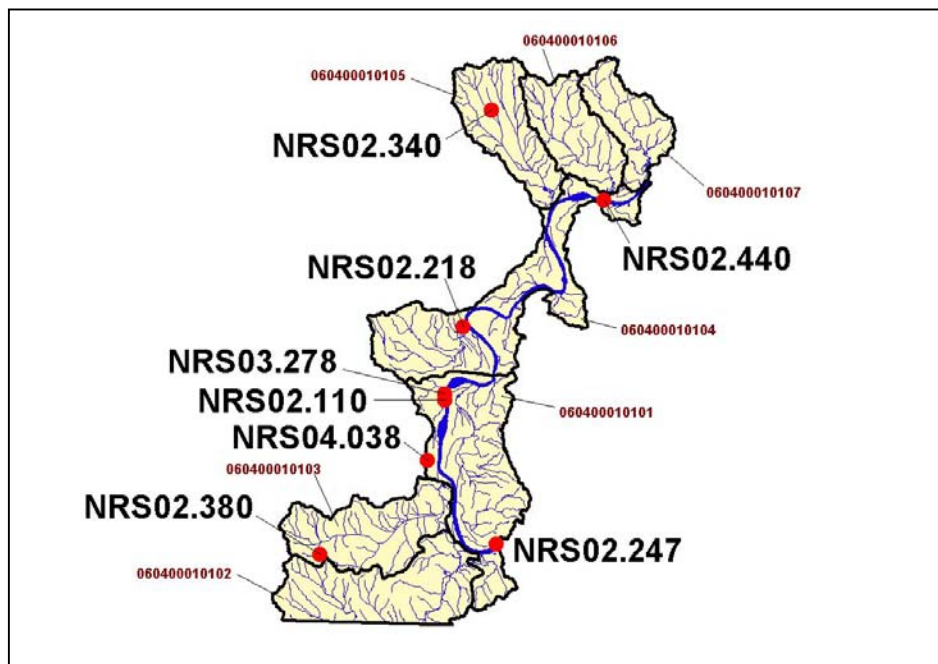


Figure 4-12. Location of ARAP Sites (Individual Permits) in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010104, 060400010105, 060400010106, and 060400010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

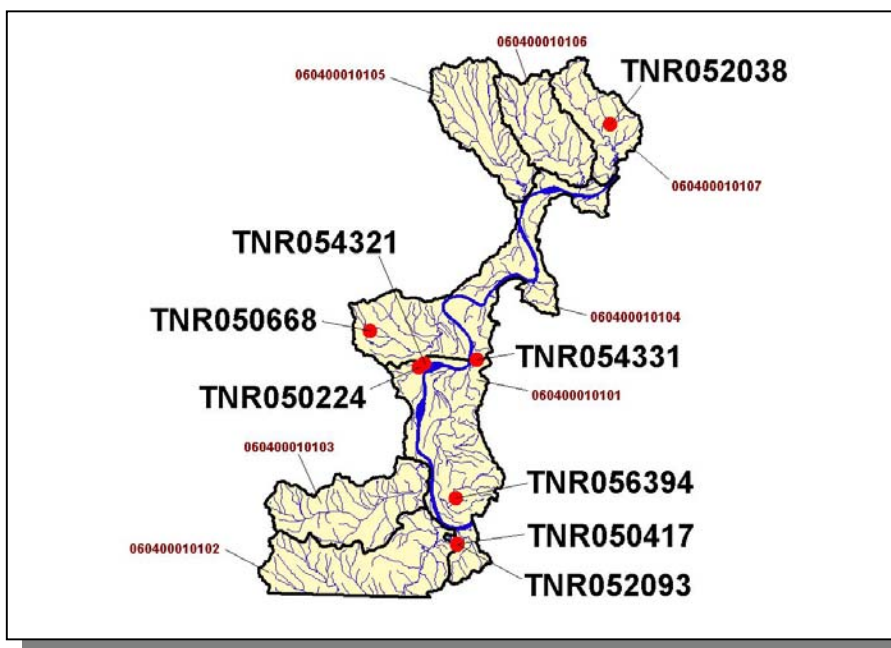


Figure 4-13. Location of TMSP Facilities in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010104, 060400010105, 060400010106, and 060400010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

4.2.A.ii.a. Dischargers to Water Bodies Listed on the 2002 303(d) List

There are two NPDES facilities discharging to water bodies listed on the 2002 303(d) list in Subwatershed 0604000101:

- TN0054976 (Scotts Hill School STP) discharges to East Prong Doe Creek @ RM 7.7
- TN0067628 (Maverick Tube Corporation) discharges to Ditch to Battle Branch @ RM 2.2 to Chambers Creek @ RM 5.5

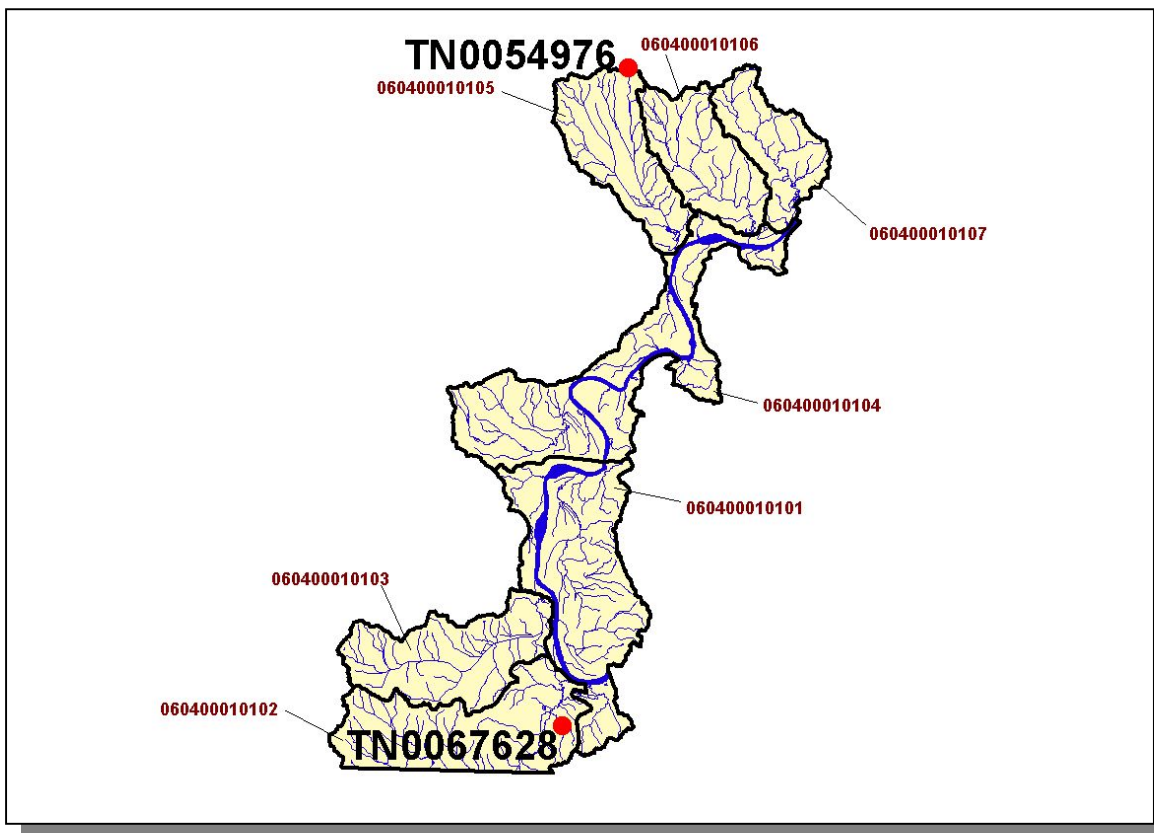


Figure 4-14. Location of NPDES Dischargers to Water Bodies Listed on the 2002 303(d) List in Subwatershed 0604000101. Subwatershed 060400010101, 060400010102, 060400010103, 060400010104, 060400010105, 060400010106, and 060400010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0054976			0		
TN0067628					

Table 4-5. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000101. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	TSS	pH	OIL and GREASE
TN0067628	X	X	X

Table 4-6. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000101.

PERMIT #	CBOD ₅	FECAL COLIFORM	E. COLI	NH ₃	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0054976	X	X	X	X	X	X	X	X	X

Table 4-7. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000101. CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

4.2.A.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens Sold	Hogs	Sheep
5,229	10,150	12	14	<5	4,098	73

Table 4-8. Summary of Livestock Count Estimates in Subwatershed 0604000101. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hardin	219.9	219.9	6.5	27.6
Henderson	158.5	158.5	3.6	12.8
Total	378.4	378.4	10.1	40.4

Table 4-9. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0604000101.

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.41
Grass (Pastureland)	0.41
Grass (Hayland)	0.22
Legumes (Hayland)	0.32
Legumes, Grass (Hayland)	0.38
Grass, Forbs, Legumes (Mixed Pasture)	0.61
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	4.99
Cotton (Row Crops)	3.65
Sorghum (Row Crops)	2.48
Soybeans (Row Crops)	10.46
Wheat (Close-Grown Cropland)	3.44
All Other Close-Grown Cropland	5.50
Other Cropland not Planted	7.09
Conservation Reserve Program Lands	0.33
Non-Agricultural Land Use	0.00
Other Land in Farms	0.43
Farmsteads and Ranch Headquarters	0.30

Table 4-10. Annual Estimated Total Soil Loss in Subwatershed 0604000101.